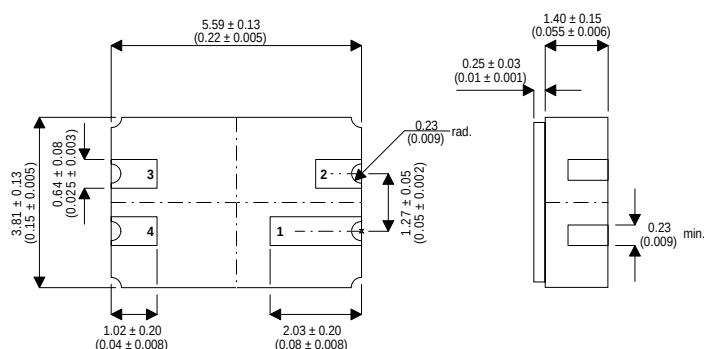


MECHANICAL DATA

Dimensions in mm (inches)



1 = CATHODE 2 = N/C 3 = N/C 4 = ANODE

ZENER VOLTAGE REGULATOR DIODE IN HERMETIC CERAMIC SURFACE MOUNT PACKAGE FOR HIGH RELIABILITY APPLICATIONS

FEATURES

- Military Screening Options available

ABSOLUTE MAXIMUM RATINGS

T_{case}	Operating temperature Range	-55 to +175°C
T_{stg}	Storage Temperature Range	-65 to +175°C
P_{TOT}	Power Dissipation $T_A = 25^\circ C$	500mW
R_{THJA}	Thermal resistance (Junction to Ambient)	300°C/W

ELECTRICAL CHARACTERISTICS @ 25°C

Part No.	Nominal Zener Voltage V _z @ I _{ZT} Volts	Test Current I _{ZT} mA	Max Zener Impedance		Max Reverse Leakage Current			Max Zener Voltage Temp. Coeff
			Z _{ZT} @ I _{ZT} Ohms	Z _{ZK} @ I _{ZK} = 0.25mA Ohms	I _R μA	@	V _R Volts	
						A	B, C & D	
1N5221	2.4	20	30	1200	100	0.95	1.0	− 0.085
1N5222	2.5	20	30	1250	100	0.95	1.0	− 0.085
1N5223	2.7	20	30	1300	75	0.95	1.0	− 0.080
1N5224	2.8	20	30	1400	75	0.95	1.0	− 0.080
1N5225	3.0	20	29	1600	50	0.95	1.0	− 0.075
1N5226	3.3	20	28	1600	25	0.95	1.0	− 0.070
1N5227	3.6	20	24	1700	15	0.95	1.0	− 0.065
1N5228	3.9	20	23	1900	10	0.95	1.0	− 0.060
1N5229	4.3	20	22	2000	5.0	0.95	1.0	± 0.055
1N5230	4.7	20	19	1900	5.0	1.9	2.0	± 0.030
1N5231	5.1	20	17	1600	5.0	1.9	2.0	± 0.030
1N5232	5.6	20	11	1600	5.0	2.9	3.0	+ 0.038
1N5233	6.0	20	7.0	1600	5.0	3.3	3.5	+ 0.038
1N5234	6.2	20	7.0	1000	5.0	3.8	4.0	+ 0.045
1N5235	6.8	20	5.0	750	3.0	4.8	5.0	+ 0.050

ELECTRICAL CHARACTERISTICS @ 25°C continued

Part No.	Nominal	Test	Max Zener Impedance		Max Reverse Leakage Current			Max Zener Voltage
	Zener Voltage	Current	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK} = 0.25mA	I _R	@	V _R Volts	
	V _Z @ I _{ZT}	I _{ZT}				Ohms	Ohms	μA
	Volts	mA						Temp. Coeff
1N5236	7.5	20	6.0	500	3.0	5.7	6.0	+ 0.058
1N5237	8.2	20	8.0	500	3.0	6.2	6.5	+ 0.062
1N5238	8.7	20	8.0	600	3.0	6.2	6.5	+ 0.065
1N5239	9.1	20	10	600	3.0	6.7	7.0	+ 0.068
1N5240	10	20	17	600	3.0	7.6	8.0	+ 0.075
1N5241	11	20	22	600	2.0	8.0	8.4	+ 0.076
1N5242	12	20	30	600	1.0	8.7	9.1	+ 0.077
1N5243	13	9.5	13	600	0.5	9.4	9.9	+ 0.079
1N5244	14	9.0	15	600	0.1	9.5	10	+ 0.082
1N5245	15	8.5	16	600	0.1	10.5	11	+ 0.082
1N5246	16	7.8	17	600	0.1	11.4	12	+ 0.083
1N5247	17	7.4	19	600	0.1	12.4	13	+ 0.084
1N5248	18	7.0	21	600	0.1	13.3	14	+ 0.085
1N5249	19	6.6	23	600	0.1	13.3	14	+ 0.086
1N5250	20	6.2	25	600	0.1	14.3	15	+ 0.086
1N5251	22	5.6	29	600	0.1	16.2	17	+ 0.087
1N5252	24	5.2	33	600	0.1	17.1	18	+ 0.088
1N5253	25	5.0	35	600	0.1	18.1	19	+ 0.089
1N5254	27	4.6	41	600	0.1	20	21	+ 0.090
1N5255	28	4.5	44	600	0.1	20	21	+ 0.091
1N5256	30	4.2	49	600	0.1	22	23	+ 0.091
1N5257	33	3.8	58	700	0.1	24	25	+ 0.092
1N5258	36	3.4	70	700	0.1	26	27	+ 0.093
1N5259	39	3.2	80	800	0.1	29	30	+ 0.094
1N5260	43	3.0	93	900	0.1	31	33	+ 0.095
1N5261	47	2.7	105	1000	0.1	34	36	+ 0.095
1N5262	51	2.5	125	1100	0.1	37	39	+ 0.096
1N5263	56	2.2	150	1300	0.1	41	43	+ 0.096
1N5264	60	2.1	170	1400	0.1	44	46	+ 0.097
1N5265	62	2.0	185	1400	0.1	45	47	+ 0.097
1N5266	68	1.8	230	1600	0.1	49	52	+ 0.097
1N5267	75	1.7	270	1700	0.1	53	56	+ 0.098
1N5268	82	1.5	330	2000	0.1	59	62	+ 0.098
1N5269	87	1.4	370	2200	0.1	65	68	+ 0.099
1N5270	91	1.4	400	2300	0.1	66	69	+ 0.099
1N5271	100	1.3	500	2600	0.1	72	76	+ 0.110
1N5272	110	1.1	750	3000	0.1	80	84	+ 0.110
1N5273	120	1.0	900	4000	0.1	86	91	+ 0.110
1N5274	130	0.95	1100	4500	0.1	94	99	+ 0.110
1N5275	140	0.90	1300	4500	0.1	101	106	+ 0.110
1N5276	150	0.85	1500	5000	0.1	108	114	+ 0.110
1N5277	160	0.80	1700	5500	0.1	116	122	+ 0.110
1N5278	170	0.74	1900	5500	0.1	123	129	+ 0.110
1N5279	180	0.68	2200	6000	0.1	130	137	+ 0.110
1N5280	190	0.66	2400	6500	0.1	137	144	+ 0.110
1N5281	200	0.65	2500	7000	0.1	144	152	+ 0.110